EXBIO Antibodies

PRODUCT DATA SHEET

10-403-C025

Monoclonal Antibody to CD261 / TRAIL-R1 Azide Free (0.025 mg)

Clone:	DR-4-02
Isotype:	Mouse IgG1
Specificity:	The antibody DR-4-02 recognizes TRAIL-R1 (DR4), a human death receptor 4 (468 amino acids) expressed in most human tissues (spleen, peripheral blood leucocytes, thymus) and in a variety of tumour-derived cell lines.
Immunogen:	Fusion protein containing the extracellular part of TRAIL-R1 and the constant part of the heavy chain of the human IgG1.
Species Reactivity:	Human
Application:	Flow Cytometry Recommended dilution: 3-5 µg/ml Immunoprecipitation Immunocytochemistry Functional Application Soluble antibody DR-4-02 blocks apoptosis triggered by a ligand (TRAIL). Plastic-immobilized (cross-linked) DR-4-02 antibody induces apoptosis in sensitive cells. Recommended dilution of antibody: 2-3 µg/ml in cultivation medium Final concentration of TRAIL: 20-200 ng/ml Application note: It is recommended to add the antibody 15 min before addition of TRAIL.
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified from hybridoma culture supernatant by protein A-affinity chromatography.
Concentration:	1 mg/ml
Storage Buffer:	Azide free phosphate buffered saline (PBS), approx. pH 7.4; 0.2 µm filter sterilized.
Storage / Stability:	Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
Expiration:	See vial label
Lot Number:	See vial label
Background:	TRAIL-R1 (CD261, DR4) is a type I transmembrane protein, also called TRAIL receptor 1. The ligand for this DR4 death receptor has been identified and termed TRAIL, which is a member of the TNF family. DR4, as many other receptors (Fas, TNFR1, etc.), mediates apoptosis and NF kappaB activation in many cells and tissues. Apoptosis, a programmed cell death, is a operating process in normal cellular differentiation and development of multicellular organisms. Apoptosis is induced by coupled of certain cytokines (TNF family - TNF, Fas ligand) and their death domain containing receptors (TNFR1, Fas receptor).

For laboratory research only, not for drug, diagnostic or other use.

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References:

*Corallini F, Milani D, Nicolin V, Secchiero P: TRAIL, caspases and maturation of normal and leukemic myeloid precursors. Leuk Lymphoma. 2006 Aug;47(8):1459-68.

*Simova S, Klima M, Cermak L, Sourkova V, Andera L: Arf and Rho GAP adapter protein ARAP1 participates in the mobilization of TRAIL-R1/DR4 to the plasma membrane. Apoptosis. 2008 Mar;13(3):423-36.

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